

Refine Search

Search Results -

Terms	Documents
L2 and (pelz or dinman or czaplinski).in.	5

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L3

Search History

DATE: Wednesday, July 28, 2004 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L3</u>	L2 and (pelz or dinman or czaplinski).in.	5	<u>L3</u>
<u>L2</u>	L1 and (upf\$4 or nam7\$4 or sal1\$4 or ifs2\$4 or mof4\$4 or nmd2\$4 or isf1\$4 or sua1\$4 or sua6\$4)	40	<u>L2</u>
<u>L1</u>	(HELICASS\$4 OR MTT1\$4) AND (ERF\$4 OR (RELEASE\$4 same FACTO\$4))	500	<u>L1</u>

END OF SEARCH HISTORY

Hit List

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[Generate OACS](#)

Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20040115787 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 5

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040115787

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040115787 A1

TITLE: Subfamily of RNA helicases which are modulators of the fidelity of translation termination and uses thereof

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peltz, Stuart	Piscataway	NJ	US	
<u>Czaplinski</u> , Kevin	Somerset	NJ	US	
<u>Dinman</u> , Jonathan D.	North Brunswick	NJ	US	

US-CL-CURRENT: 435/226; 530/388.26, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20030032158 A1

L3: Entry 2 of 5

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032158

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032158 A1

TITLE: Method of modulating the efficiency of translation termination and degradation of aberrant mRNA involving a surveillance complex comprising human Upflp,eucaryotic release factor 1 and eucaryotic release factor 3

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peltz, Stuart	Piscataway	NJ	US	
<u>Czaplinski</u> , Kevin	Somerset	NJ	US	

Weng, Youmin

Cranford

NJ

US

US-CL-CURRENT: 435/189; 530/388.26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 6630294 B1

L3: Entry 3 of 5

File: USPT

Oct 7, 2003

US-PAT-NO: 6630294

DOCUMENT-IDENTIFIER: US 6630294 B1

TITLE: Subfamily of RNA helicases which are modulators of the fidelity of translation termination and uses thereof

DATE-ISSUED: October 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peltz; Stuart	Piscataway	NJ		
Czaplinski; Kevin	Somerset	NJ		
Dinman; Jonathan D.	North Brunswick	NJ		

US-CL-CURRENT: 435/4; 435/183, 435/7.1, 435/7.31, 436/86, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6486305 B1

L3: Entry 4 of 5

File: USPT

Nov 26, 2002

US-PAT-NO: 6486305

DOCUMENT-IDENTIFIER: US 6486305 B1

TITLE: METHOD OF MODULATING THE EFFICIENCY OF TRANSLATION TERMINATION AND DEGRADATION OF ABERRANT MRNA INVOLVING A SURVEILLANCE COMPLEX COMPRISING HUMAN UPF1P, EUCARYOTIC RELEASE FACTOR 1 AND EUCARYOTIC RELEASE FACTOR 3

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peltz; Stuart	Piscataway	NJ	08854	
Czaplinski; Kevin	Somerset	NJ	08873	
Weng; Youmin	Cranford	NJ	07016	

US-CL-CURRENT: 530/412; 435/455, 435/69.1, 530/350, 530/358

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 20040115787 A1

L3: Entry 5 of 5

File: DWPI

Jun 17, 2004

DERWENT-ACC-NO: 2004-449400

DERWENT-WEEK: 200442

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TITLE: Identifying a test composition or agent that modulates the efficiency of translation termination comprises contacting the MTT1 with the test composition or agent, and determining if the test composition or agent inhibits the MTT1

INVENTOR: CZAPLINSKI, K; DINMAN, J D ; PELTZ, S

PRIORITY-DATA: 1998US-093685P (July 22, 1998), 1999US-0359268 (July 22, 1999), 2003US-0652334 (August 28, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040115787 A1</u>	June 17, 2004		041	C12N009/64

INT-CL (IPC): C07 H 21/04; C07 K 16/40; C12 N 9/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sentence	Attachments	Claims	KWIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L2 and (pelz or dinman or czaplinski).in.	5

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

=> d his

(FILE 'HOME' ENTERED AT 19:31:12 ON 28 JUL 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS,
DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 19:31:26 ON 28 JUL
2004

SEA (HELICAS? OR MTT1?) OR (ERF? OR (RELEAS?(S)FACTO?))

1596 FILE ADISCTI
354 FILE ADISINSIGHT
378 FILE ADISNEWS
6851 FILE AGRICOLA
192 FILE ANABSTR
2954 FILE AQUASCI
1469 FILE BIOBUSINESS
234 FILE BIOCOMMERCE
43311 FILE BIOSIS
2564 FILE BIOTECHABS
2564 FILE BIOTECHDS
25707 FILE BIOTECHNO
14587 FILE CABA
22758 FILE CANCERLIT
50487 FILE CAPLUS
60171 FILE CEABA-VTB
83 FILE CEN
444 FILE CIN
1196 FILE CONFSCI
306 FILE CROPB
455 FILE CROPU
4438 FILE DISSABS
10295 FILE DDFB
18653 FILE DDFU
399612 FILE DGENE
10295 FILE DRUGB
41 FILE DRUGMONOG2
183 FILE IMSDRUGNEWS
21744 FILE DRUGU
192 FILE IMSRESEARCH
721 FILE EMBAL
83157 FILE EMBASE
27817 FILE ESBIODBASE
3955* FILE FEDRIP
304 FILE FOMAD
475 FILE FROSTI
1816 FILE FSTA
17804 FILE GENBANK
453 FILE HEALSAFE
3074 FILE IFIPAT
72 FILE IMSPRODUCT
4377 FILE JICST-EPLUS
246 FILE KOSMET
20977 FILE LIFESCI
76 FILE MEDICONF
59476 FILE MEDLINE
844 FILE NIOSHTIC
3489 FILE NTIS
11 FILE NUTRACEUT
754 FILE OCEAN
44363 FILE PASCAL
431 FILE PHAR
130 FILE PHARMAML
5 FILE PHIC
788 FILE PHIN
304170 FILE PROMT
1131 FILE PROUSDDR
475 FILE RDISCLOSURE
58511 FILE SCISEARCH
10 FILE SYNTHLINE

20905 FILE TOXCENTER
43056 FILE USPATFULL
2544 FILE USPAT2
829 FILE VETB
2402 FILE VETU
4638 FILE WPIDS
1925 FILE WPIFV
4638 FILE WPINDEX
944 FILE IPA
171 FILE NAPRALERT
19988 FILE NLDB
L1 QUE (HELICAS? OR MTT1?) OR (ERF? OR (RELEAS?(S) FACTO?))

FILE 'DGENE, PROMT, EMBASE, CEABA-VTB, MEDLINE, SCISEARCH, CAPLUS,
PASCAL, BIOSIS, USPATFULL, ESBIOBASE' ENTERED AT 19:35:08 ON 28 JUL 2004
L2 673 S (HELICAS? OR MTT1?) AND (ERF? OR (RELEAS?(S)FACTO?))
L3 51 S L2 AND (UPF? OR NAM7? OR SAL1? OR IFS2? OR MOF4? OR NMD2? OR
L4 46 DUP REM L3 (5 DUPLICATES REMOVED)

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NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5 May 27 New UPM (Update Code Maximum) field for more efficient patent
SDIs in CPlus
NEWS 6 May 27 CPlus super roles and document types searchable in REGISTRY
NEWS 7 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
and WATER from CSA now available on STN(R)
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resulting in a closer connection to BABS

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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FILE 'HOME' ENTERED AT 19:31:12 ON 28 JUL 2004

=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,
BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,
CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU,
DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 19:31:26 ON 28 JUL 2004

73 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s (helicas? or mttl?) or (erf? or (releas?(s)facto?))

1596 FILE ADISCTI
354 FILE ADISINSIGHT
378 FILE ADISNEWS
6851 FILE AGRICOLA
192 FILE ANABSTR
2954 FILE AQUASCI

1469 FILE BIOBUSINESS
 234 FILE BIOCOMMERCE
 43311 FILE BIOSIS
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 25707 FILE BIOTECHNO
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 22758 FILE CANCERLIT
 50487 FILE CAPLUS
 60171 FILE CEABA-VTB
 83 FILE CEN
 444 FILE CIN
 1196 FILE CONFSCI
 306 FILE CROPB
 455 FILE CROPU
 21 FILES SEARCHED...
 4438 FILE DISSABS
 10295 FILE DDFB
 18653 FILE DDFU
 399612 FILE DGENE
 10295 FILE DRUGB
 41 FILE DRUGMONOG2
 183 FILE IMSDRUGNEWS
 21744 FILE DRUGU
 192 FILE IMSRESEARCH
 721 FILE EMBAL
 83157 FILE EMBASE
 27817 FILE ESBIODBASE
 3955* FILE FEDRIP
 304 FILE FOMAD
 35 FILES SEARCHED...
 475 FILE FROSTI
 1816 FILE FSTA
 17804 FILE GENBANK
 453 FILE HEALSAFE
 3074 FILE IFIPAT
 72 FILE IMSPRODUCT
 4377 FILE JICST-EPLUS
 246 FILE KOSMET
 20977 FILE LIFESCI
 76 FILE MEDICONF
 59476 FILE MEDLINE
 844 FILE NIOSHTIC
 3489 FILE NTIS
 11 FILE NUTRACEUT
 754 FILE OCEAN
 44363 FILE PASCAL
 431 FILE PHAR
 130 FILE PHARMAML
 5 FILE PHIC
 788 FILE PHIN
 57 FILES SEARCHED...
 304170 FILE PROMT
 1131 FILE PROUSDDR
 475 FILE RDISCLOSURE
 58511 FILE SCISEARCH
 10 FILE SYNTHLINE
 20905 FILE TOXCENTER
 43056 FILE USPATFULL
 2544 FILE USPAT2
 829 FILE VETB
 2402 FILE VETU
 4638 FILE WPIDS
 1925 FILE WPIFV
 4638 FILE WPINDEX
 944 FILE IPA
 171 FILE NAPRALERT
 19988 FILE NLDB

71 FILES HAVE ONE OR MORE ANSWERS, 73 FILES SEARCHED IN STNINDEX

L1 QUE (HELICAS? OR MTT1?) OR (ERF? OR (RELEAS?(S) FACTO?))

=> d rank

F1	399612	DGENE
F2	304170	PROMT
F3	83157	EMBASE
F4	60171	CEABA-VTB
F5	59476	MEDLINE
F6	58511	SCISEARCH
F7	50487	CAPLUS
F8	44363	PASCAL
F9	43311	BIOSIS
F10	43056	USPATFULL
F11	27817	ESBIOBASE
F12	25707	BIOTECHNO
F13	22758	CANCERLIT
F14	21744	DRUGU
F15	20977	LIFESCI
F16	20905	TOXCENTER
F17	19988	NLDB
F18	18653	DDFU
F19	17804	GENBANK
F20	14587	CABA
F21	10295	DDFB
F22	10295	DRUGB
F23	6851	AGRICOLA
F24	4638	WPIDS
F25	4638	WPINDEX
F26	4438	DISSABS
F27	4377	JICST-EPLUS
F28	3955*	FEDRIP
F29	3489	NTIS
F30	3074	IFIPAT
F31	2954	AQUASCI
F32	2564	BIOTECHABS
F33	2564	BIOTECHDS
F34	2544	USPAT2
F35	2402	VETU
F36	1925	WPIFV
F37	1816	FSTA
F38	1596	ADISCTI
F39	1469	BIOBUSINESS
F40	1196	CONFSCI
F41	1131	PROUSDDR
F42	944	IPA
F43	844	NIOSHTIC
F44	829	VETB
F45	788	PHIN
F46	754	OCEAN
F47	721	EMBAL
F48	475	FROSTI
F49	475	RDISCLOSURE
F50	455	CROPU
F51	453	HEALSAFE
F52	444	CIN
F53	431	PHAR
F54	378	ADISNEWS
F55	354	ADISINSIGHT
F56	306	CROPB
F57	304	FOMAD
F58	246	KOSMET
F59	234	BIOCOMMERCE
F60	192	ANABSTR
F61	192	IMSRESEARCH
F62	183	IMSDRUGNEWS
F63	171	NAPRALERT
F64	130	PHARMAML
F65	83	CEN
F66	76	MEDICONF
F67	72	IMSPRODUCT
F68	41	DRUGMONOG2

F69 11 NUTRACEUT
 F70 10 SYNTHLINE
 F71 5 PHIC

=> file f1-f11

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.42	3.63

FULL ESTIMATED COST

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=> s (helicas? or mtt1?) and (erf? or (releas?(s)facto?))
 8 FILES SEARCHED...

L2 673 (HELICAS? OR MTT1?) AND (ERF? OR (RELEAS?(S) FACTO?))

=> s l2 and (upf? or nam7? or sal1? or ifs2? or mof4? or nmd2? or isf1? or sua1? or sua6?)
 L3 51 L2 AND (UPF? OR NAM7? OR SAL1? OR IFS2? OR MOF4? OR NMD2? OR
 ISF1? OR SUA1? OR SUA6?)

=> dup rem l3
 DUPLICATE IS NOT AVAILABLE IN 'DGENE'.
 ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
 PROCESSING COMPLETED FOR L3

L4 46 DUP REM L3 (5 DUPLICATES REMOVED)

=> d ti l4 1-46

L4 ANSWER 1 OF 46 USPATFULL on STN
 TI Methods for in vitro expansion and transdifferentiation of human
 pancreatic acinar cells into insulin-producing cells

L4 ANSWER 2 OF 46 USPATFULL on STN
 TI Ncc2705-the genome of a bifodobacterium

L4 ANSWER 3 OF 46 USPATFULL on STN

TI Subfamily of RNA **helicases** which are modulators of the fidelity of translation termination and uses thereof

L4 ANSWER 4 OF 46 USPATFULL on STN
 TI Targets for therapeutic intervention identified in the mitochondrial proteome

L4 ANSWER 5 OF 46 USPATFULL on STN
 TI Whole cell engineering by mutagenizing a substantial portion of a starting genome, combining mutations, and optionally repeating

L4 ANSWER 6 OF 46 USPATFULL on STN
 TI Methods of identifying compounds that inhibit nonstop degradation of mRNA

L4 ANSWER 7 OF 46 USPATFULL on STN
 TI Wound healing biomarkers

L4 ANSWER 8 OF 46 USPATFULL on STN
 TI Methods of diagnosis of breast cancer, compositions and methods of screening for modulators of breast cancer

L4 ANSWER 9 OF 46 USPATFULL on STN
 TI Composition for the detection of signaling pathway gene expression

L4 ANSWER 10 OF 46 USPATFULL on STN
 TI Novel human polynucleotides and polypeptides encoded thereby

L4 ANSWER 11 OF 46 USPATFULL on STN
 TI Methods of diagnosis of ovarian cancer, compositions and methods of screening for modulators of ovarian cancer

L4 ANSWER 12 OF 46 USPATFULL on STN
 TI Novel full-length cDNA

L4 ANSWER 13 OF 46 USPATFULL on STN
 TI Nucleic acid sequences relating to *Candida albicans* for diagnostics and therapeutics

L4 ANSWER 14 OF 46 USPATFULL on STN
 TI Nucleic acid molecule and encoded protein associated with sterol synthesis and metabolism

L4 ANSWER 15 OF 46 USPATFULL on STN
 TI DNA array sequence selection

L4 ANSWER 16 OF 46 MEDLINE on STN
 TI Leaky termination at premature stop codons antagonizes nonsense-mediated mRNA decay in *S. cerevisiae*.

L4 ANSWER 17 OF 46 USPATFULL on STN
 TI Novel full length cDNA

L4 ANSWER 18 OF 46 USPATFULL on STN
 TI Novel methods of diagnosis of metastatic colorectal cancer, compositions and methods of screening for modulators of metastatic colorectal cancer

L4 ANSWER 19 OF 46 USPATFULL on STN
 TI Protein-protein interactions in adipocyte cells (3)

L4 ANSWER 20 OF 46 USPATFULL on STN
 TI Novel full-length cDNA

L4 ANSWER 21 OF 46 USPATFULL on STN
 TI Segments of the human gene for telomerase reverse transcriptase

L4 ANSWER 22 OF 46 USPATFULL on STN
 TI Yeast proteome analysis

L4 ANSWER 23 OF 46 USPATFULL on STN
 TI Novel nucleic acids and polypeptides

L4 ANSWER 24 OF 46 USPATFULL on STN
TI Libraries of expressible gene sequences

L4 ANSWER 25 OF 46 USPATFULL on STN
TI Methods of diagnosis of ovarian cancer, compositions and methods of screening for modulators of ovarian cancer

L4 ANSWER 26 OF 46 USPATFULL on STN
TI Libraries of expressible gene sequences

L4 ANSWER 27 OF 46 USPATFULL on STN
TI Human genes and gene expression products

L4 ANSWER 28 OF 46 USPATFULL on STN
TI Protein-protein interactions in adipocyte cells

L4 ANSWER 29 OF 46 USPATFULL on STN
TI Method of modulating the efficiency of translation termination and degradation of aberrant mRNA involving a surveillance complex comprising human **Upflp**, eucaryotic **release factor 1** and eucaryotic **release factor 3**

L4 ANSWER 30 OF 46 USPATFULL on STN
TI Subfamily of RNA **helicases** which are modulators of the fidelity of translation termination and uses thereof

L4 ANSWER 31 OF 46 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to *Enterococcus faecalis* for diagnostics and therapeutics

L4 ANSWER 32 OF 46 USPATFULL on STN
TI Cells immortalized with telomerase reverse transcriptase for use in drug screening

L4 ANSWER 33 OF 46 USPATFULL on STN
TI Promoter for telomerase reverse transcriptase

L4 ANSWER 34 OF 46 USPATFULL on STN
TI ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

L4 ANSWER 35 OF 46 USPATFULL on STN
TI Composition for the detection of signaling pathway gene expression

L4 ANSWER 36 OF 46 USPATFULL on STN
TI METHOD OF MODULATING THE EFFICIENCY OF TRANSLATION TERMINATION AND DEGRADATION OF ABERRANT MRNA INVOLVING A SURVEILLANCE COMPLEX COMPRISING HUMAN **UPF1P**, EUCARYOTIC **RELEASE FACTOR 1** AND EUCARYOTIC **RELEASE FACTOR 3**

L4 ANSWER 37 OF 46 USPATFULL on STN
TI Polynucleotides and polypeptides derived from corn ear

L4 ANSWER 38 OF 46 USPATFULL on STN
TI Genomic DNA sequences of *ashbya gossypii* and uses thereof

L4 ANSWER 39 OF 46 CAPLUS COPYRIGHT 2004 ACS on STN
TI Subfamily of RNA **helicases** which are modulators of the fidelity of translation termination

L4 ANSWER 40 OF 46 USPATFULL on STN
TI Telomerase catalytic subunit

L4 ANSWER 41 OF 46 MEDLINE on STN DUPLICATE 1
TI **Mtt1** is a **Upf1**-like **helicase** that interacts with the translation termination factors and whose overexpression can modulate termination efficiency.

L4 ANSWER 42 OF 46 MEDLINE on STN
TI RNA surveillance. Unforeseen consequences for gene expression, inherited genetic disorders and cancer.

L4 ANSWER 43 OF 46 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN DUPLICATE 2

TI A mutated human homologue to yeast **Upf1** protein has a
dominant-negative effect on the decay of nonsense-containing mRNAs in
mammalian cells.

L4 ANSWER 44 OF 46 MEDLINE on STN

TI The surveillance complex interacts with the translation **release**
factors to enhance termination and degrade aberrant mRNAs.

L4 ANSWER 45 OF 46 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI PURIFICATION AND CHARACTERIZATION OF THE **UPF1** PROTEIN - A FACTOR
INVOLVED IN TRANSLATION AND MESSENGER-RNA DEGRADATION

L4 ANSWER 46 OF 46 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI New multiprotein complex which can modulate peptidyl transferase activity
during translation, useful to treat diseases associated with peptidyl
transferase activity e.g. Duchene/Becker Muscular Dystrophy -

=> d ibib abs 14 29 30 36 39 43 44 46

L4 ANSWER 29 OF 46 USPATFULL on STN

ACCESSION NUMBER: 2003:44848 USPATFULL

TITLE: Method of modulating the efficiency of translation
termination and degradation of aberrant mRNA involving
a surveillance complex comprising human **Upf1p**
, eucaryotic **release factor 1** and
eucaryotic **release factor 3**

INVENTOR(S): Peltz, Stuart, Piscataway, NJ, UNITED STATES
Czaplinski, Kevin, Somerset, NJ, UNITED STATES
Weng, Youmin, Cranford, NJ, UNITED STATES

PATENT ASSIGNEE(S): University of Medicine and Dentistry of New Jersey, New
Brunswick, NY, UNITED STATES, 08903 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003032158	A1	20030213
APPLICATION INFO.:	US 2002-138784	A1	20020503 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-321649, filed on 28 May 1999, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-86986P	19980528 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PERKINS COIE LLP, POST OFFICE BOX 1208, SEATTLE, WA, 98111-1208	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	2935	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided are novel methods and assays to identify agents and
compositions that modulate the ability of the eukaryotic surveillance
complex to effect translation termination and degradation of aberrant
mRNA.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 30 OF 46 USPATFULL on STN

ACCESSION NUMBER: 2003:268126 USPATFULL

TITLE: Subfamily of RNA **helicases** which are
modulators of the fidelity of translation termination
and uses thereof

INVENTOR(S): Peltz, Stuart, Piscataway, NJ, United States
Czaplinski, Kevin, Somerset, NJ, United States
Dinman, Jonathan D., North Brunswick, NJ, United States

PATENT ASSIGNEE(S): University of Medicine and Dentistry of New Jersey, New

Brunswick, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6630294	B1	20031007
APPLICATION INFO.:	US 1999-359268		19990722 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-93685P	19980722 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Prouty, Rebecca E.	
ASSISTANT EXAMINER:	Ramirez, Delia	
LEGAL REPRESENTATIVE:	Wise, Michael J., Perkins Coie LLP	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 6 Drawing Page(s)	
LINE COUNT:	2768	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a method for modulating the efficiency of translation termination of messenger RNA. Also provided are methods of screening for compositions and agents capable of modulating translation termination.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 36 OF 46 USPATFULL on STN

ACCESSION NUMBER: 2002:311029 USPATFULL
TITLE: METHOD OF MODULATING THE EFFICIENCY OF TRANSLATION
TERMINATION AND DEGRADATION OF ABERRANT MRNA INVOLVING
A SURVEILLANCE COMPLEX COMPRISING HUMAN **UPF1P**
, EUCARYOTIC **RELEASE FACTOR 1** AND
EUCARYOTIC **RELEASE FACTOR 3**
INVENTOR(S): Peltz, Stuart, 67 Castle Pointe Blvd., Piscataway, NJ,
United States 08854
Czaplinski, Kevin, 115 Hollywood Ave., Somerset, NJ,
United States 08873
Weng, Youmin, 2 Indian Spring Rd., Cranford, NJ, United
States 07016

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6486305	B1	20021126
APPLICATION INFO.:	US 2000-639987		20000816 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-86260, filed on 28 May 1998, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	McCarry, Sean		
ASSISTANT EXAMINER:	Zara, Jane		
LEGAL REPRESENTATIVE:	Lyon & Lyon LLP		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	2808		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a method of modulating translation termination efficiency of mRNA and/or promoting degradation of aberrant transcripts. Also, this invention provides a method of screening for a drug active involved in enhancing translation termination and a method for identifying a disease state involving defective the protein complex.

This invention provides a purified complex comprising an amount of a human **Upf1p** protein, a peptidyl eucaryotic **release factor 1 (eRF1)** and a peptidyl eucaryotic **release factor 3 (eRF3)** effective to modulate translation termination. Further, this invention provides an expression vector which comprises a nucleic acid encoding a human **Upf1p** protein, a peptidyl eucaryotic **release factor 1 (eRF1)** and a peptidyl eucaryotic

release factor 3 (eRF3) operably linked to a regulatory element.

This invention provides an antibody which binds to the complex comprising an amount of a human **Upflp** protein, a peptidyl eucaryotic **release factor 1 (eRF1)** and a peptidyl eucaryotic **release factor 3 (eRF3)** effective to modulate translation termination. This invention provides an agent which inhibits or modulates the binding of human **Upflp** to **eRF1** or **eRF3**. The agent may inhibit or facilitate the binding of human **Upflp** to **eRF1** or **eRF3**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 39 OF 46 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:85103 CAPLUS

DOCUMENT NUMBER: 132:148498

TITLE: Subfamily of RNA **helicases** which are modulators of the fidelity of translation termination
INVENTOR(S): Peltz, Stuart; Czaplinski, Kevin; Dinman, Jonathan D.
PATENT ASSIGNEE(S): University of Medicine and Dentistry, USA
SOURCE: PCT Int. Appl., 89 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000005586	A2	20000203	WO 1999-US16802	19990722
WO 2000005586	A3	20000420		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2338312	AA	20000203	CA 1999-2338312	19990722
AU 9952286	A1	20000214	AU 1999-52286	19990722
EP 1098905	A2	20010516	EP 1999-937450	19990722
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002524719	T2	20020806	JP 2000-561501	19990722
PRIORITY APPLN. INFO.:			US 1998-120435	A2 19980722
			WO 1999-US16802	W 19990722

AB This invention provides a method of modulating translation termination efficiency of mRNA and/or promoting degrdn. of aberrant transcripts. Also, this invention provides a method of screening for a drug active involved in enhancing translation termination and a method for identifying a disease state involving defective the protein complex. This invention provides a purified complex comprising an amt. of **MTT1** (mediator of translation termination, the gene encoding **helicase B**), human **Upflp**, a peptidyl eucaryotic **release factor 1 (eRF1)** and a peptidyl eucaryotic **release factor 3 (eRF3)** effective to modulate translation termination. Further, this invention provides an expression vector which comprises a nucleic acid encoding a **MTT1**, a human **Upflp** protein, a peptidyl eucaryotic **release factor 1 (eRF1)** and a peptidyl eucaryotic **release factor 3 (eRF3)** operably linked to a regulatory element. This invention provides an antibody which binds to the complex comprising an amt. of a **MTT1**, human **Upflp** protein, a peptidyl eucaryotic **release factor 1 (eRF1)** and a peptidyl eucaryotic **release factor 3 (eRF3)** effective to modulate translation termination. This invention provides an agent which inhibits or modulates the binding of **MTT1** to

eRF3. The agent may inhibit or facilitate the binding of **MTT1** to **eRF3**. Alignment of several RNA **helicases** identifies 9 motifs characteristic of modulators of translation termination.

L4 ANSWER 43 OF 46 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN DUPLICATE 2

ACCESSION NUMBER: 1998305591 EMBASE
TITLE: A mutated human homologue to yeast **Upf1** protein has a dominant-negative effect on the decay of nonsense-containing mRNAs in mammalian cells.
AUTHOR: Sun X.; Perlick H.A.; Dietz H.C.; Maquat L.E.
CORPORATE SOURCE: L.E. Maquat, Roswell Park Cancer Institute, Department of Genetics, Elm and Carlton Streets, Buffalo, NY 14263, United States. maquat@sc3101.med.buffalo.edu
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (18 Aug 1998) 95/17 (10009-10014).
Refs: 46
ISSN: 0027-8424 CODEN: PNASA6
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology
LANGUAGE: English
SUMMARY LANGUAGE: English

AB All eukaryotic cells analyzed have developed mechanisms to eliminate the production of mRNAs that prematurely terminate translation. The mechanisms are thought to exist to protect cells from the deleterious effects of in-frame nonsense codons that are generated by routine inefficiencies and inaccuracies in RNA metabolism such as pre-mRNA splicing. Depending on the particular mRNA and how it is produced, nonsense codons can mediate a reduction in mRNA abundance either (i) before its **release** from an association with nuclei into the cytoplasm, presumably but not certainly while the mRNA is being exported to the cytoplasm and translated by cytoplasmic ribosomes, or (ii) in the cytoplasm. Here, we provide evidence for a **factor** that functions to eliminate the production of nonsense-containing RNAs in mammalian cells. The **factor**, variously referred to as Rent1 (regulator of nonsense transcripts) or HUPF1 (human **Upf1** protein), was identified by isolating cDNA for a human homologue to *Saccharomyces cerevisiae* **Upf1p**, which is a group I RNA **helicase** that functions in the nonsenser mediated decay of mRNA in yeast. Using monkey COS cells and human HeLa cells, we demonstrate that expression of human **Upf1** protein harboring an arginine-to-cysteine mutation at residue 844 within the RNA **helicase** domain acts in a dominant-negative fashion to abrogate the decay of nonsense-containing mRNA that takes place (i) in association with nuclei or (ii) in the cytoplasm. These findings provide evidence that nonsense-mediated mRNA decay is related mechanistically in yeast and in mammalian cells, regardless of the cellular site of decay.

L4 ANSWER 44 OF 46 MEDLINE on STN
ACCESSION NUMBER: 1998283914 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9620853
TITLE: The surveillance complex interacts with the translation **release factors** to enhance termination and degrade aberrant mRNAs.
AUTHOR: Czaplinski K; Ruiz-Echevarria M J; Paushkin S V; Han X; Weng Y; Perlick H A; Dietz H C; Ter-Avanesyan M D; Peltz S W
CORPORATE SOURCE: Department of Molecular Genetics and Microbiology, Robert Wood Johnson Medical School-UMDNJ, USA.
CONTRACT NUMBER: GM48631-01 (NIGMS)
SOURCE: Genes & development, (1998 Jun 1) 12 (11) 1665-77.
Journal code: 8711660. ISSN: 0890-9369.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199807
ENTRY DATE: Entered STN: 19980713
Last Updated on STN: 19980713

Entered Medline: 19980701

AB The nonsense-mediated mRNA decay pathway is an example of an evolutionarily conserved surveillance pathway that rids the cell of transcripts that contain nonsense mutations. The product of the **UPF1** gene is a necessary component of the putative surveillance complex that recognizes and degrades aberrant mRNAs. Recent results indicate that the **Upf1p** also enhances translation termination at a nonsense codon. The results presented here demonstrate that the yeast and human forms of the **Upf1p** interact with both eukaryotic translation termination factors **eRF1** and **eRF3**. Consistent with **Upf1p** interacting with the **eRFs**, the **Upf1p** is found in the prion-like aggregates that contain **eRF1** and **eRF3** observed in yeast [PSI+] strains. These results suggest that interaction of the **Upf1p** with the peptidyl release factors may be a key event in the assembly of the putative surveillance complex that enhances translation termination, monitors whether termination has occurred prematurely, and promotes degradation of aberrant transcripts.

L4 ANSWER 46 OF 46 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: AAY77814 peptide DGENE

TITLE: New multiprotein complex which can modulate peptidyl transferase activity during translation, useful to treat diseases associated with peptidyl transferase activity e.g. Duchene/Becker Muscular Dystrophy -

INVENTOR: Peltz S; Czaplinski K; Dinman J D

PATENT ASSIGNEE: (UYNE-N)UNIV NEW JERSEY.

PATENT INFO: WO 2000005586 A2 20000203 89p

APPLICATION INFO: WO 1999-US16802 19990722

PRIORITY INFO: US 1998-120435 19980722

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2000-171458 [15]

DESCRIPTION: Yeast **Upf1** protein fragment.

AN AAY77814 peptide DGENE

AB The invention provides a new multiprotein complex which can modulate peptidyl transferase activity during translation. The complex comprises the gene encoding **Helicase B** (HCSB; renamed **MTT1**, for Modulator of Translation Termination) and the conserved proteins known to interact and carry out translation termination in eukaryotic cells, peptidyl eukaryotic release factor (**eRF**) 1 and **eRF3**. The complex can be used to modulate peptidyl transferase activity during translation in a cell. It can be administered therapeutically combined with a carrier in pharmaceutical compositions to treat diseases associated with peptidyl transferase activity, especially diseases resulting from a nonsense or frameshift mutation e.g. beta-thalassemia, beta-globin, Duchene/Becker Muscular Dystrophy etc. It can be used to identify disease conditions involving a defect in the complex, by transfecting cells with encoding nucleic acid and determining the proportion of defective complex before and after transfection. It is also useful to screen for drugs involved in peptidyl transferase activity during translation, inhibiting the interaction between **MTT1** and **eRF3** or involved in enhancing translation termination. Vectors comprising polynucleotides encoding the complex (or antisense sequences) can be constructed and introduced into cells to interfere with complex expression and so modulate the efficiency of translation termination of mRNA and/or degradation of aberrant transcripts in a cell. Agents binding to the complex can be identified and included in therapeutic compositions useful as above, and/or used to modulate peptidyl transferase activity during translation in cells. They are also useful to modulate the efficiency of translation termination of mRNA at a nonsense codon and/or promote degradation of aberrant transcripts in cells. The method can be used to identify agents/ compositions modulating binding to **MTT1**, useful to identify genes. Sequences AAY77813-817 represent protein fragments from yeast superfamily group I **helicases**.

=> dhis

DHIS IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> d his

(FILE 'HOME' ENTERED AT 19:31:12 ON 28 JUL 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 19:31:26 ON 28 JUL 2004

SEA (HELICAS? OR MTT1?) OR (ERF? OR (RELEASE(S)FACTO?))

1596 FILE ADISCTI
354 FILE ADISINSIGHT
378 FILE ADISNEWS
6851 FILE AGRICOLA
192 FILE ANABSTR
2954 FILE AQUASCI
1469 FILE BIOBUSINESS
234 FILE BIOCOMMERCE
43311 FILE BIOSIS
2564 FILE BIOTECHABS
2564 FILE BIOTECHDS
25707 FILE BIOTECHNO
14587 FILE CABA
22758 FILE CANCERLIT
50487 FILE CAPLUS
60171 FILE CEABA-VTB
83 FILE CEN
444 FILE CIN
1196 FILE CONFSCI
306 FILE CROPB
455 FILE CROPU
4438 FILE DISSABS
10295 FILE DDFB
18653 FILE DDFU
399612 FILE DGENE
10295 FILE DRUGB
41 FILE DRUGMONOG2
183 FILE IMSDRUGNEWS
21744 FILE DRUGU
192 FILE IMSRESEARCH
721 FILE EMBAL
83157 FILE EMBASE
27817 FILE ESBIODBASE
3955* FILE FEDRIP
304 FILE FOMAD
475 FILE FROSTI
1816 FILE FSTA
17804 FILE GENBANK
453 FILE HEALSAFE
3074 FILE IFIPAT
72 FILE IMSPRODUCT
4377 FILE JICST-EPLUS
246 FILE KOSMET
20977 FILE LIFESCI
76 FILE MEDICONF
59476 FILE MEDLINE
844 FILE NIOSHTIC
3489 FILE NTIS
11 FILE NUTRACEUT
754 FILE OCEAN
44363 FILE PASCAL
431 FILE PHAR
130 FILE PHARMAML
5 FILE PHIC
788 FILE PHIN
304170 FILE PROMT
1131 FILE PROUSDDR
475 FILE RDISCLOSURE

58511 FILE SCISEARCH
 10 FILE SYNTHLINE
 20905 FILE TOXCENTER
 43056 FILE USPATFULL
 2544 FILE USPAT2
 829 FILE VETB
 2402 FILE VETU
 4638 FILE WPIDS
 1925 FILE WPIFV
 4638 FILE WPINDEX
 944 FILE IPA
 171 FILE NAPRALERT
 19988 FILE NLDB

L1 QUE (HELICAS? OR MTT1?) OR (ERF? OR (RELEAS?(S) FACTO?))

FILE 'DGENE, PROMT, EMBASE, CEABA-VTB, MEDLINE, SCISEARCH, CAPLUS,
 PASCAL, BIOSIS, USPATFULL, ESBIODBASE' ENTERED AT 19:35:08 ON 28 JUL 2004

L2 673 S (HELICAS? OR MTT1?) AND (ERF? OR (RELEAS?(S)FACTO?))
 L3 51 S L2 AND (UPF? OR NAM7? OR SAL1? OR IFS2? OR MOF4? OR NMD2? OR
 L4 46 DUP REM L3 (5 DUPLICATES REMOVED)

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COST IN U.S. DOLLARS

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ENTRY	SESSION
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FULL ESTIMATED COST



DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 19:44:34 ON 28 JUL 2004

Entrez PubMed Nucleotide Protein Genome Structure PMC Taxonomy Boo

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Limits Preview/Index History Clipboard Details

Show:

☐ 1: NP_542199. UPF3 regulator of...[gi:18375528] BLink, Domains, Links

LOCUS NP_542199 483 aa linear PRI 21-DEC-2003

DEFINITION UPF3 regulator of nonsense transcripts homolog B isoform 1 [Homo sapiens].

ACCESSION NP_542199

VERSION NP_542199.1 GI:18375528

DBSOURCE REFSEQ: accession [NM_080632.1](#)

KEYWORDS .

SOURCE Homo sapiens (human)

ORGANISM [Homo sapiens](#)

[Eukaryota](#); [Metazoa](#); [Chordata](#); [Craniata](#); [Vertebrata](#); [Euteleostomi](#); [Mammalia](#); [Eutheria](#); [Primates](#); [Catarrhini](#); [Hominidae](#); [Homo](#).

REFERENCE 1 (residues 1 to 483)

AUTHORS Gehring,N.H., Neu-Yilik,G., Schell,T., Hentze,M.W. and Kulozik,A.E.

TITLE Y14 and hUpf3b form an NMD-activating complex

JOURNAL Mol. Cell 11 (4), 939-949 (2003)

PUBMED [12718880](#)

REMARK GeneRIF: A conserved domain of hUpf3b mediates an interaction with the EJC protein Y14. Y14 is required for nonsense-mediated decay induced by tethered hUpf3b.

REFERENCE 2 (residues 1 to 483)

AUTHORS Lykke-Andersen,J., Shu,M.D. and Steitz,J.A.

TITLE Communication of the position of exon-exon junctions to the mRNA surveillance machinery by the protein RNPS1

JOURNAL Science 293 (5536), 1836-1839 (2001)

PUBMED [11546874](#)

REMARK GeneRIF: binds RNPS1 protein, part of the postsplicing complex deposited 5' to exon-exon junctions

REFERENCE 3 (residues 1 to 483)

AUTHORS Kim,V.N., Kataoka,N. and Dreyfuss,G.

TITLE Role of the nonsense-mediated decay factor hUpf3 in the splicing-dependent exon-exon junction complex

JOURNAL Science 293 (5536), 1832-1836 (2001)

PUBMED [11546873](#)

REMARK GeneRIF: binds to spliced mRNAs upstream of exon-exon junctions; is part of mRNP complexes that are ready for nuclear export and that participate in nonsense-mediated mRNA decay

REFERENCE 4 (residues 1 to 483)

AUTHORS Serin,G., Gersappe,A., Black,J.D., Aronoff,R. and Maquat,L.E.

TITLE Identification and characterization of human orthologues to *Saccharomyces cerevisiae* Upf2 protein and Upf3 protein (*Caenorhabditis elegans* SMG-4)

JOURNAL Mol. Cell. Biol. 21 (1), 209-223 (2001)

PUBMED [11113196](#)

REFERENCE 5 (residues 1 to 483)

AUTHORS Lykke-Andersen,J., Shu,M.D. and Steitz,J.A.

TITLE Human Upf proteins target an mRNA for nonsense-mediated decay when bound downstream of a termination codon

JOURNAL Cell 103 (7), 1121-1131 (2000)

PUBMED [11163187](#)

COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The reference sequence was derived from AF318576.1, AY013251.1 and BI549935.1.

Summary: This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. The encoded protein is one of two functional homologs to yeast Upf3p. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein binds to the mRNA and remains bound after nuclear export, acting as a nucleocytoplasmic shuttling protein. It forms with Y14 a complex that binds specifically 20 nt upstream of exon-exon junctions. This gene is located on the long arm of chromosome X. Two splice variants encoding different isoforms have been found for this gene.

Transcript Variant: This variant (1) contains exon 8 and encodes the longer isoform (1), also known as hUpf3-X.

FEATURES	Location/Qualifiers
source	1..483 /organism="Homo sapiens" /db_xref="taxon:9606" /chromosome="X" /map="Xq25-q26"
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<u>Region</u>	<428..481 /region_name="Nonsense-mediated decay protein Upf3 [RNA processing and modification]" /note="KOG1295" /db_xref="CDD:19084"
<u>CDS</u>	1..483 /gene="UPF3B" /coded_by="NM_080632.1:78..1529" /note="isoform 1 is encoded by transcript variant 1" /db_xref="GeneID:65109" /db_xref="LocusID:65109" /db_xref="MIM:300298"



ORIGIN

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Entrez PubMed Nucleotide Protein Genome Structure PMC Taxonomy Boo

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☐ 1: NP_542166. UPF2 regulator of...[gi:18375676] BLink, Domains, Links

LOCUS NP_542166 1272 aa linear PRI 21-DEC-2003

DEFINITION UPF2 regulator of nonsense transcripts homolog; regulator of nonsense transcripts 2; yeast Upf2p homolog [Homo sapiens].

ACCESSION NP_542166

VERSION NP_542166.1 GI:18375676

DBSOURCE REFSEQ: accession [NM_080599.1](#)

KEYWORDS .

SOURCE Homo sapiens (human)

ORGANISM [Homo sapiens](#)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (residues 1 to 1272)

AUTHORS Serin,G., Gersappe,A., Black,J.D., Aronoff,R. and Maquat,L.E.

TITLE Identification and characterization of human orthologues to *Saccharomyces cerevisiae* Upf2 protein and Upf3 protein (Caenorhabditis elegans SMG-4)

JOURNAL Mol. Cell. Biol. 21 (1), 209-223 (2001)

PUBMED [11113196](#)

REFERENCE 2 (residues 1 to 1272)

AUTHORS Lykke-Andersen,J., Shu,M.D. and Steitz,J.A.

TITLE Human Upf proteins target an mRNA for nonsense-mediated decay when bound downstream of a termination codon

JOURNAL Cell 103 (7), 1121-1131 (2000)

PUBMED [11163187](#)

REFERENCE 3 (residues 1 to 1272)

AUTHORS Mendell,J.T., Medghalchi,S.M., Lake,R.G., Noensie,E.N. and Dietz,H.C.

TITLE Novel Upf2p orthologues suggest a functional link between translation initiation and nonsense surveillance complexes

JOURNAL Mol. Cell. Biol. 20 (23), 8944-8957 (2000)

PUBMED [11073994](#)

COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The reference sequence was derived from [AB037829.1](#) and [AW444636.1](#).

Summary: This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein is located in the perinuclear area. It interacts with translation release factors and the proteins that are functional homologs of yeast Upf1p and Upf3p. Two splice variants have been found for this gene; both variants encode the same protein.

Transcript Variant: This variant (1) contains a different 5' UTR than variant 2 and is the longer transcript.

FEATURES Location/Qualifiers

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/db_xref="taxon:9606"
/chromosome="10"
/map="10p14-p13"

Protein 1..1272
/product="UPF2 regulator of nonsense transcripts homolog"
/note="regulator of nonsense transcripts 2; yeast Upf2p homolog"

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/db_xref="CDD:23388"

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/note="Upf2"
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1261 adlifktggr rr

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Search for

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Show:

☐ 1: NP_060564. peptide chain rel...[gi:46094014] BLINK, Domains, Links

LOCUS NP_060564 628 aa linear PRI 12-JUL-2004
 DEFINITION peptide chain release factor 3 [Homo sapiens].
 ACCESSION NP_060564
 VERSION NP_060564.2 GI:46094014
 DBSOURCE REFSEQ: accession NM_018094.2

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (residues 1 to 628)

AUTHORS Hansen, L.L., Jakobsen, C.G. and Justesen, J.

TITLE Assignment of the human peptide chain release factor 3 (GSPT2) to Xp11.23-->p11.21 and of the distal marker DXS1039 by radiation hybrid mapping

JOURNAL Cytogenet. Cell Genet. 86 (3-4), 250-251 (1999)

PUBMED 10575220

REFERENCE 2 (residues 1 to 628)

AUTHORS Hoshino, S., Imai, M., Mizutani, M., Kikuchi, Y., Hanaoka, F., Ui, M. and Katada, T.

TITLE Molecular cloning of a novel member of the eukaryotic polypeptide chain-releasing factors (eRF). Its identification as eRF3 interacting with eRF1

JOURNAL J. Biol. Chem. 273 (35), 22254-22259 (1998)

PUBMED 9712840

COMMENT VALIDATED REFSEQ: This record has undergone preliminary review of the sequence, but has not yet been subject to final review. The reference sequence was derived from [BC036077.1](#), [AJ251548.1](#), [AK001303.1](#) and [AK023155.1](#).

On Apr 2, 2004 this sequence version replaced gi:8922424.

Summary: GSPT2 is closely related to GSPT1 (MIM 139259), a GTP-binding protein that plays an essential role at the G1- to S-phase transition of the cell cycle in yeast and human cells. GSPT1 is a positive regulator of translational accuracy and, in a binary complex with eRF1 (MIM 600285), functions as a polypeptide chain release factor. [supplied by OMIM].

FEATURES

source

Location/Qualifiers

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Protein

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601 pqmgrftlrd  egktiaigkv  lklvpekd
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Search for

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Show:

☐ 1: P62495. Eukaryotic peptid...[gi:50402099] Links

LOCUS P62495 437 aa linear PRI 01-OCT-2004
 DEFINITION Eukaryotic peptide chain release factor subunit 1 (eRF1)
 (Eukaryotic release factor 1) (TB3-1) (Cl1 protein).
 ACCESSION P62495
 VERSION P62495 GI:50402099
 DBSOURCE swissprot: locus ERF1_HUMAN, accession P62495;
 class: standard.
 extra accessions:P46055,created: Nov 1, 1995.
 sequence updated: Nov 1, 1995.
 annotation updated: Oct 1, 2004.
 xrefs: gi: 338686, gi: 338687, gi: 1491703, gi: 1491704, gi:
 1890299, gi: 1890300, gi: 5499720, gi: 5499721, gi: 1082824, pdb
 accession 1DT9
 xrefs (non-sequence databases): GenewHGNC:3477, MIM 600285,
 GO0005737, GO0003723, GO0003747, GO0006449, InterProIPR004403,
 InterProIPR005140, InterProIPR005141, InterProIPR005142,
 PfamPF03463, PfamPF03464, PfamPF03465, TIGRFAMstTIGR00108
 KEYWORDS 3D-structure; Protein biosynthesis.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 437)
 AUTHORS Grenett,H.E., Bounelis,P. and Fuller,G.M.
 TITLE Identification of a human cDNA with high homology to yeast
 omnipotent suppressor 45
 JOURNAL Gene 110 (2), 239-243 (1992)
 MEDLINE 92165066
 PUBMED 1537561
 REMARK SEQUENCE FROM N.A.
 REFERENCE 2 (residues 1 to 437)
 AUTHORS Frolova,L., Le Goff,X., Rasmussen,H.H., Cheperegine,S., Drugeon,G.,
 Kress,M., Arman,I., Haenni,A.L., Celis,J.E., Philippe,M. et al.
 TITLE A highly conserved eukaryotic protein family possessing properties
 of polypeptide chain release factor
 JOURNAL Nature 372 (6507), 701-703 (1994)
 MEDLINE 95082951
 PUBMED 7990965
 REMARK REVISIONS, AND FUNCTION.
 REFERENCE 3 (residues 1 to 437)
 AUTHORS Andjelkovic,N., Zolnierowicz,S., Van Hoof,C., Goris,J. and
 Hemmings,B.A.
 TITLE The catalytic subunit of protein phosphatase 2A associates with the
 translation termination factor eRF1
 JOURNAL EMBO J. 15 (24), 7156-7167 (1996)
 MEDLINE 97157506
 PUBMED 9003791
 REMARK SEQUENCE FROM N.A.
 TISSUE=Brain

REFERENCE 4 (residues 1 to 437)
 AUTHORS Guenet,L., Toutain,B., Guilleret,I., Chauvel,B., Deaven,L.L., Longmire,J.L., Le Gall,J.Y., David,V. and Le Treut,A.
 TITLE Human release factor eRF1: structural organisation of the unique functional gene on chromosome 5 and of the three processed pseudogenes
 JOURNAL FEBS Lett. 454 (1-2), 131-136 (1999)
 MEDLINE 99339455
 PUBMED 10413110
 REMARK SEQUENCE FROM N.A.

REFERENCE 5 (residues 1 to 437)
 AUTHORS Song,H., Mugnier,P., Das,A.K., Webb,H.M., Evans,D.R., Tuite,M.F., Hemmings,B.A. and Barford,D.
 TITLE The crystal structure of human eukaryotic release factor eRF1--mechanism of stop codon recognition and peptidyl-tRNA hydrolysis
 JOURNAL Cell 100 (3), 311-321 (2000)
 MEDLINE 20139983
 PUBMED 10676813
 REMARK X-RAY CRYSTALLOGRAPHY (2.7 ANGSTROMS).
 COMMENT On Jul 20, 2004 this sequence version replaced gi:1169547.

 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. The original entry is available from <http://www.expasy.ch/sprot> and <http://www.ebi.ac.uk/sprot>

[FUNCTION] Directs the termination of nascent peptide synthesis (translation) in response to the termination codons UAA, UAG and UGA.

[SUBUNIT] Heterodimer of two subunits, one of which binds GTP.

[SUBCELLULAR LOCATION] Cytoplasmic.

[SIMILARITY] Belongs to the eukaryotic release factor 1 family.

FEATURES Location/Qualifiers

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421 gmeyqggdde ffdlddy
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